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Comments by James Sherman, Vice-President, American Wind Power & Hydrogen

At the October 23, 2006 Public Hearing on New Jersey's Energy Master Plan

Good morning.

My name is James Sherman, VP for New Jersey Operations for American Wind Power & Hydrogen.

I want to thank you for the opportunity to present comments this morning on the course of the State's future Energy Master Plan.

At American Wind Power and Hydrogen, we develop fully integrated hydrogen fueling stations for hydrogen internal combustion engine cars, SUVs, pick-up trucks, and city buses, all of which are now available with hydrogen internal combustion engine power systems. Two months ago, AWP&H delivered two Toyota Prius sedans converted to run on H₂ by Quantum Technologies and a hydrogen fueling station to the State University of New York at Buffalo. Two weeks ago AWP&H demonstrated the Quantum HICE Prius and the eTec Chevy Silverado pick up truck to the New York State General Services Administration on the plaza at the state capitol in Albany. And under the current \$5MM Public Opportunity Notice issued by the New York State Energy Research and Development Authority (NYSERDA) specifically for HICE vehicles, AWP&H is preparing to submit proposal on behalf of a variety of public and private fleet operators in Buffalo, Rochester, and Albany, New York.

Hydrogen can and should be the centerpiece of the State's Energy Master Plan because it represents the solution to the most critical modern problems of our times: climate security, energy security, and economic development. Large quantities of hydrogen are shipped through New Jersey every day, primarily for industrial and commercial uses. One of the principal users of H₂ is PSE&G which uses H₂ to cool the generators at the power plant in Jersey City.

Importantly, H₂ can be generated in a completely green, sustainable way from solar, wind, hydro, biomass and other renewable energy resources. NJ's off-

shore wind resource can be used to generate green H₂ which can be cost competitive with a gallon of gasoline. And that's the link, the ability to produce a motor vehicle fuel that has virtually zero emissions and no CO₂ emissions from a local renewable energy resource. And the State of New Jersey can become the east coast leader in the growing hydrogen economy by purchasing HICE vehicles into the state fleet every year. In California, the South Coast Air Quality Management District, in conjunction with CalStart-Weststart, has just started up a 5 station H₂ program in the Los Angeles airshed basin with 20 Quantum Toyota HICE Prius. The Norwegians have just purchased another 20 for their Hydrogen Highway. The Wall Street Journal announced last month that BMW will begin production of a HICE BMW 700 series vehicle for consumers.

To sum up, the Hydrogen Highway is happening all over the world and in California and New York and other states. States need to take the lead and New Jersey has a great opportunity to "walk onto the moving train," just like it did with the BPU's adoption of solar power, but this time to link all elements of its Energy Master Plan, stationary power generation and generation of fuel for transportation, through H₂.

Thank you.

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